

**National Centre for Sustainable Coastal Management (NCSCM)
Ministry of Environment, Forest & Climate Change
Anna University Campus, Chennai – 600025, Tamil Nadu**

Procurement of Goods under Shopping Procedures

Supply, Installation, Training of Terrestrial 3D Laser Scanner

Ref.: NCSCM/PROC/3DLaserScanner/2020/G-102

Corrigendum No.1

Corrigendum to the Technical Specifications for 3D Laser Scanner Hardware

Sl. No. of the published IFQ at Page No.21	As per the published IFQ	Modification Made Now
3	System must provide angular accuracy 8" Vertical 8" Horizontal or better.	System must provide angular accuracy 20 " or better.
4	3D position Accuracy 3.1mm or better at 50 m, 6.1mm or better at 100 m, With user selectable resolution settings.	3D position Accuracy = 2.1 mm or better at 10 m, 3.5 mm or better at 25 m, 3.1 mm or better at 50 m,6.1 mm or better at 100 m, With user selectable resolution settings.
6	Wave length of the system must be 1550 nm or better (invisible) 658nm or better (Visible).	Wave length of the system must be 1550 nm / 658nm or better.
7	System must capture objects at minimum range of 0.4 m to maximum range of 250 m or better from axis of scanner (Radial Range).	System must capture objects at minimum range of 0.6 m or better to maximum range of 250 m or better from axis of scanner (Radial Range).
8	System Beam divergence should be 0.023m rad or better.	System Beam divergence should be 0.3mrad or better.
9	System data transfer/ communication types includes Gigabit Ethernet, Integrated Wireless LAN and USB 2.0 device or better.	System data transfer/ communication types includes Gigabit Ethernet/WLAN and SD Card/USB or better technology.
10	System must use Ultrafast imaging &Waveform Digitization Technology for better results.	System must use Ultrafast imaging &Waveform Digitization Technology or Phase Shift Principle for better results.
13	System must support up to 700 MP or better calibrated spherical image with maximum 3-6 minute or more for full spherical/ panoramic HDR Image at any light condition.	System must support to 4 MPx or better Single camera shot/ 150 MPx or better HDR Panorama shot.
15	System must operate on 4 Nos internal battery with minimum 5.5hrs of operation or better. Total Scanning time with set of at least 4 hot swappable batteries 11hrs or more. Provision for External Battery with single continuous operation of at least 7.5hrs or more.	Adequate number of batteries to be supplied to run Scanner for at-least 9 -10 hours of daily operations with 2 nos. additional.
27	System Warranty and Services includes standard manufacture warranty 3 years onsite.	System Warranty and Services includes standard manufacture warranty 1 year or more. Provision for 3 years' warranty on site which should include parts, labor, shipping, repairs due to malfunction/defect to be provided and rectified free of cost.
28	The Scanner shall be supplied with a Heavy Duty Tripod, Data Transfer Cable, Battery Charger, Internal SSD for data storage, Tribrach with Laser Plummer & Target Set of 4 Targets 4 Poles and 4 Target Stands.	The Scanner shall be supplied with a Tripod, Internal SSD/SD card/USB/Data Transfer Cable, Battery Charger, Internal SSD for data storage device, Target Kit (Spherical Kit or Set of4 Targets, 4 Poles, 4Stands), Scanner Carrying Case, Tribrach with Laser plummet etc.

29	The Scanner shall be supplied with a Field Laptop (i9 Processor, 16GB DDR4 RAM, Nvidia Quadro Graphic Card Windows Based with 8 hours plus battery backup or Hi-end Field Tablet with 11-inch screen, 8Gb Ram and 10 hours battery backup.	The Scanner shall be supplied with a Field Laptop (i7 Processor, 64GB DDR4 RAM, PCI based SSD 1TB, 4-8 GB Nvidia Quadro Graphic Card Windows Based with 6-8 hours plus battery backup and Hi-end Field Tablet with GSM support with 11-inch screen, 16 Gb Ram and 6-8 hours battery backup.
----	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Note:

The Corrigendum mentioned above is to be treated as Corrigendum to the terms & conditions of the IFQ. All the other contents of the IFQ including the last date of submission of Quotations remain the same.

The bidders have to submit a copy of this Corrigendum along with the IFQ. Each page of the IFQ as well as this Corrigendum are to be signed by the authorized Signatories of the bidders.

**Sd/-
Director, NCSCM**